

WO 2004/007266 A1



European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01075

A. CLASSIFICATION OF SUBJECT MATTER

IPC7: B62D 61/00, B66F 9/07

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC7: B66F, B62D

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

SE,DK,FI,NO classes as above

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

EPO-INTERNAL, WPI DATA, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 9954190 A1 (MAXMOVE AB), 28 October 1999 (28.10.99)	1
Y	--	2-5,7-20
Y	US 20020069005 A1 (KAZUMASA KOKURA), 6 June 2002 (06.06.02), column 14, line 55 - line 60; column 14, line 72 - line 76, figures 1,13	2,3,4
Y	US 4159059 A (CHRISTENSON ET AL), 26 June 1979 (26.06.79), column 3, line 46 - line 49, figures 1-8	5,7-13,15-16
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☒ Further documents are listed in the continuation of Box C.☒ See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&" document member of the same patent family

Date of the actual completion of the international search

18 November 2003

Date of mailing of the international search report

19-11-2003

Name and mailing address of the ISA/

Swedish Patent Office

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INTERNATIONAL SEARCH REPORT

International application No.

PCT/SE 03/01075

C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 0136313 A1 (MEIJER, SJOERD), 25 May 2001 (25.05.01) --	17-19
Y	DE 2849272 A1 (DAIMLER-BENZ AG), 29 May 1980 (29.05.80), page 5 - page 6 --	20
Y	JP 2002167197 A (AICHI CORP KK), 11 June 2002 (11.06.02), figures 1,3-5 -- -----	14

INTERNATIONAL SEARCH REPORTInternational application No.
PCT/SE03/01075**Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:

2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see next sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
1-5, 7-20

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.
PCT/SE02/01075

The International Search Authority considers that there are two inventions covered by the claims indicated as follows:

- I: Claims 1-5, 7-20
- II: Claims 6

The ISA has carried out a partial search which relates to invention I mentioned above.
The applicant is invited to pay (an) additional fee(s) for invention II listed above.

The present application has been considered to contain two inventions which are not linked such that they form a single general inventive concept, as required by Rules 13.1, 13.2 and 13.3 PCT for the following reasons:

Claims 1-5 and 7-20 relates to the problem of designing an industrial truck which is able to carry out unlimited movement patterns in a horizontal plane. This problem appears to be solved by:

- Arranging the wheels in a certain way.
- Providing the truck with a control unit, which controls the movement of the vehicle and of the, relative to the chassis, movable parts of the hoisting unit.

Claim 6 relates to the problem of designing an industrial truck with the ability to move and lift heavy load. This problem appears to be solved by:

- Providing the truck with a hoisting unit, which is supported by the chassis via a jib.

As both problems and solutions are technically so different, no single general concept can be formulated based on the technical features of the inventions. Consequently, the requirements of Rule 13.1 PCT are not met.

INTERNATIONAL SEARCH REPORT
Information on patent family members

06/09/03

International application No.
PCT/SE 03/01075

Patent document cited in search report			Publication date	Patent family member(s)		Publication date
WO	9954190	A1	28/10/99	AU	4066799 A	08/11/99
				EP	1071602 A	31/01/01
				SE	9801330 D	00/00/00

US	20020069005	A1	06/06/02	NONE		

US	4159059	A	26/06/79	CA	1073409 A	11/03/80

WO	0136313	A1	25/05/01	AU	1855601 A	30/05/01
				NL	1013588 C	00/00/00

DE	2849272	A1	29/05/80	NONE		

JP	2002167197	A	11/06/02	NONE		
